INVENTORS: Brian J. Smith and Janice C. Rock

TITLE OF INVENTION: A Passive Radar Detector for Dualizing Missile Seeker Capability

INFORMATION DISCLOSURE STATEMENT

A) U. S. Patent 6,424,286 B1 teaches a device to jam a hostile radar to render it ineffective and vulnerable. During the "blind range" between the termination of an RF missile's active tracking of the target radar at a pre-selected distance from the target and its impact on the target, the jamming device produces and broadcasts, via the missile's antenna, signals that are designed to jam and frustrate the target radar. However, the RF missile itself does not gain any additional guidance modes, nor does it perform azimuth or elevation direction finding activities as a result of the jamming device.

Applicants' invention, on the other hand, does perform azimuth and elevation direction finding on the signals received from the target radar. Further, applicants' invention provides additional guidance to the missile by passively detecting any emissions from the target radar and processing them into signals that are usable by the missile in guiding itself to make a more direct hit upon the target.

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Docket Number (optional) AMPC 5077 Applicants: Brian J. Smith et al Filing Date	Application Number Group Art Unit

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	6,424,286 B1	Jul. 23, 2002	Brian J. Smith et al.	342	14	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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